SONY

TRINITRON® COLOR TV

BASIC SCHEMATIC DIAGRAM

KV-1221R

Chassis No. SCC-265E

NOTE

THIS SCHEMATIC DIAGRAM IS FOR USE BY YOUR SERVICE TECHNICIAN. KEEP THIS DIAGRAM HANDY FOR FUTURE REFERENCE.

Sony Corporation
1-491-437-01 ©1980 Printed in Japan

WARNING!!

TO ELIMINATE SHOCK HAZARD AND PROTECT EQUIPMENT WHEN SERVICING THE SET WITH THE COVERS REMOVED, MAKE SURE THAT THE SET IS PLUGGED INTO A SUITABLY-RATED ISOLATION TRANSFORMER.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND ⚠ MARK ON THE SCHEMATIC DIAGRAMS ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THE PARTS LIST ON THIS BASIC SCHEMATIC DIAGRAM OR IN THE SERVICE MANUAL. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THE SERVICE MANUAL PUBLISHED BY SONY. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

- All capacitors are in μF unless otherwise noted. p: μμF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼ W unless otherwise noted. k: 1000 Ω, M: 1000 kΩ.
- ▭ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by ⊠ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

PARTS LIST

(THE SHADED AND ⚠ MARK COMPONENTS)

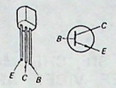
NOTE: REPLACE THE SHADED AND ⚠ MARK COMPONENTS ON THE SCHEMATIC DIAGRAM WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS LIST OR IN SUPPLEMENTS PUBLISHED BY SONY.

Ref. No.	*Part No.*	*Description*
C545	1-130-345-00	Capacitor, 10,000 pF 1.2 kV film
C546	1-108-961-00	Capacitor, 0.15 μF 200 V film
C601	1-108-913-00	Capacitor, 0.22 μF 125 V film
C602	1-161-748-00	Capacitor, 0.0047 μF 125 V ceramic
C901	1-102-155-00	Capacitor, 330 pF 2 kV ceramic
D511	8-719-901-94	Diode, V19CS
DVR601	1-800-641-00	Varistor
F601	1-532-272-XX	Fuse, 5 A
F602	1-532-570-00	Fuse, 1.25 A
IC601	1-231-462-00	Modele, power
L502	1-459-295-00	Coil, HLC
L503	1-459-292-00	Coil, HWC; H. SIZE
L601	1-421-403-00	Coil
L901, 902	1-425-922-81	Coil, degaussing; DGC
⊠R563	————	Resistor, ¼ W carbon (factory selected value)
R901	1-205-612-00	Resistor, 4.7 Ω 20 W wirewound (nonflammable)
RL001	1-515-346-00	Relay
S901	1-553-262-00	Switch, pushbutton; MASTER
T209	1-427-442-00	Transformer, SOT
T502	1-421-351-00	Transformer, H. PCT
T503	1-439-250-00	Transformer, FBT
T601	1-421-357-00	Transformer, LFT
THP601	1-800-686-00	Thermistor, positive
V901	8-738-901-05	Picture Tube, 330LB22
	1-226-733-21	HVR Ass'y
	1-451-185-00	Deflection Yoke, DY
	1-463-264-00	UHF/VHF Tuner, BT-852
	1-536-592-00	Antenna Terminal
	1-551-603-00	Cord, power
	4-022-115-00	Holder, power cord

- When replacing components identified by ◪ mark the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⊠ and repeat the adjustment until the specified value is achieved.
- Refer to the service manual for the adjustment of components identified by ⊠.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-per-volt VOM.
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken with a color-bar signal input.
- Voltages on M2 board are taken with set selected to channel A (VHF) position.
- ▭ : adjustment for repair.
- Do not touch the terminal 1 and 2 of IC001 marked ◆ on M2 board with VOM probe, as B+ voltage will not be supplied to the set.

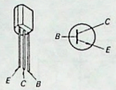
CX555A
CX556A

2SC945
2SC1670
2SC1890A
2SC2230A

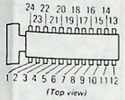


CX557

2SC1364



CX760
CX804



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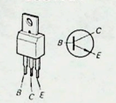
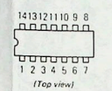


CX761A
CX843



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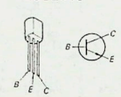

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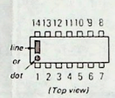

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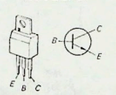

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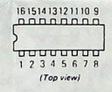

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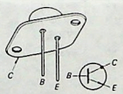
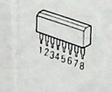


M51903L



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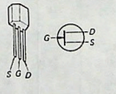

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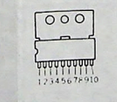
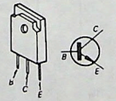


MN8303



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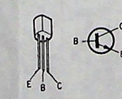
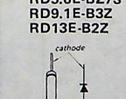


1S1555
RD5.6E-BZ7S
RD9.1E-B3Z
RD13E-B2Z



2SA733
2SA840
2SA893A

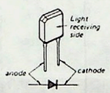
EQA01-24RR
EQB01-12R
SIB01-02

GM3
U05ES
V09C
V19C
V19E
V30N
V19CS

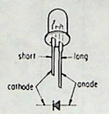
GP08D

HF1A

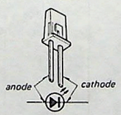
PH302A



SE303A

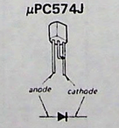


SR632D

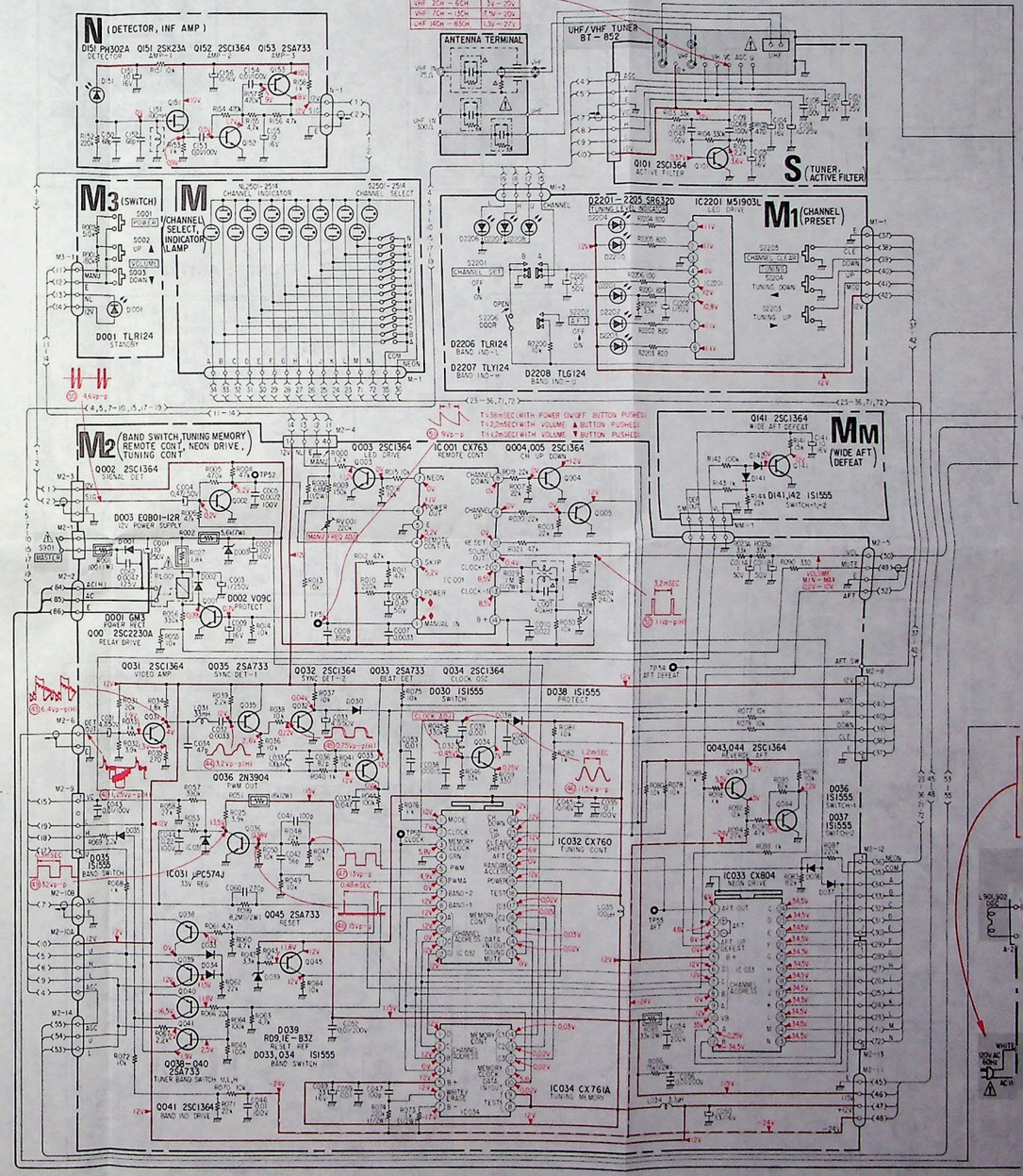


TLG124
TLR124
TLY124

μPC574J



SCHEMATIC DIAGRAM



C D E F G H I J K L M N O P Q R

CAUTION

Be sure to connect the connector (C-2) for safety.

CAUTION

This set is equipped with a polarized AC power cord plug (one blade of the plug is wider than the other). When replacing the AC power cord, be sure to connect it with specified part number as shown in this diagram.

A (VIF, SIF, CHROMA, Y. AMP, H. DEF, V. DEF, AF. OUT, CUSTOMER CONTROL, POWER SUPPLY)

S (TUNER, ACTIVE FILTER)

M1 (CHANNEL PRESET)

MM (WIDE AFT DEFEAT)

C (R.G.B. OUT)

DY

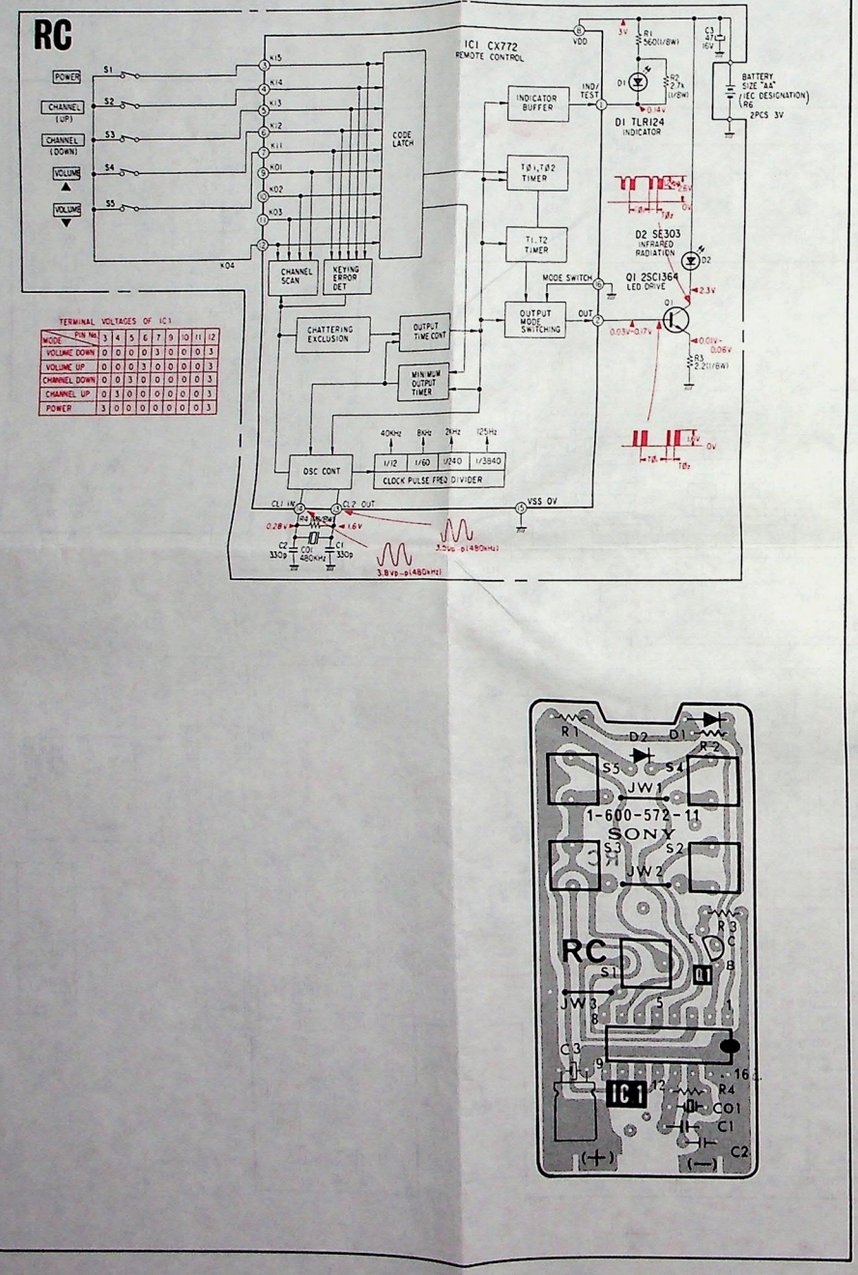
DY ASS'Y

HVR ASS'Y

MOUNTING DIAGRAM

Note: All mounting diagrams are viewed from conductor side.

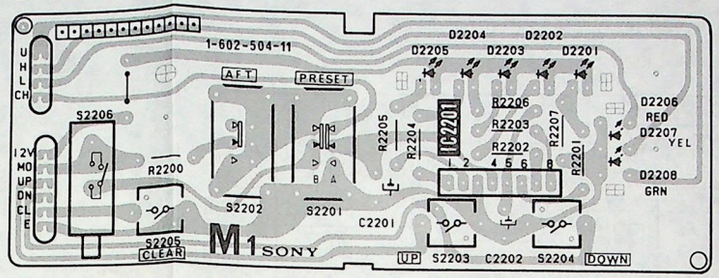
REMOTE COMMANDER RM-702



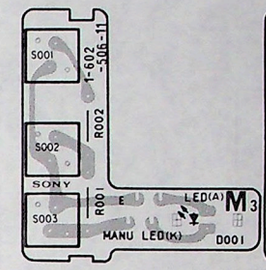
TERMINAL VOLTAGES OF IC1

PIN No.	3	4	5	6	7	9	10	11	12
MODE	0	0	0	0	3	0	0	0	3
VOLUME DOWN	0	0	0	0	3	0	0	0	3
VOLUME UP	0	0	0	3	0	0	0	0	3
CHANNEL DOWN	0	0	3	0	0	0	0	0	3
CHANNEL UP	0	3	0	0	0	0	0	0	3
POWER	3	0	0	0	0	0	0	0	3

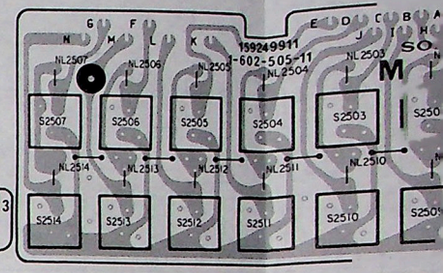
M1 (CHANNEL PRESET)



M3 (SWITCH)

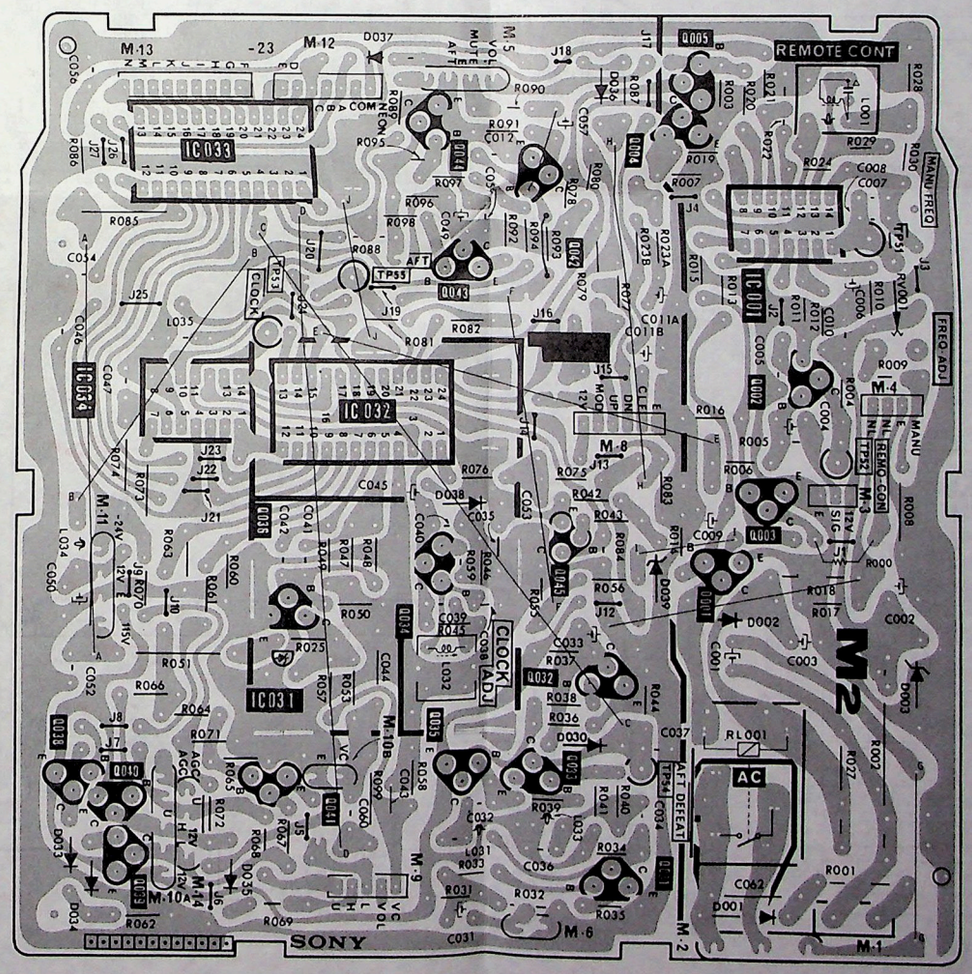


M (CHANNEL SELECT, INDICATOR LAMP)

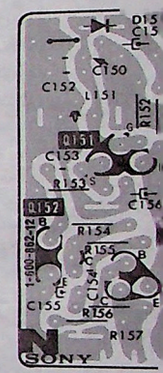


M2 (REMOTE CONTROL, TUNING CONTROL, TUNING MEMORY, NEON DRIVE, BAND SWITCH)

Q, IC	D	ADJ
	037	
005	036	
044, 004		
IC033		
042		
IC001		
043		RV001
002		
IC034 IC032		
003	038	
045		
034 001	039	
036	002	
032	003	L032
IC031		
038,041,035	030	
040 033		
039	033	
031	034 035	
	001	



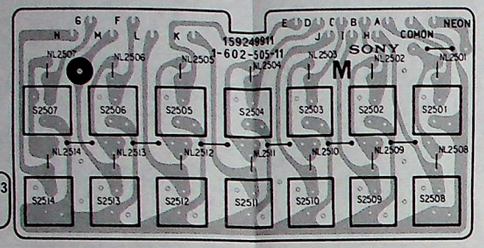
N (DETECTOR, INF AM



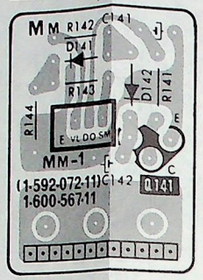
L M N O P Q R S T U V W X Y Z

ITCH)

M (CHANNEL SELECT, INDICATOR LAMP)

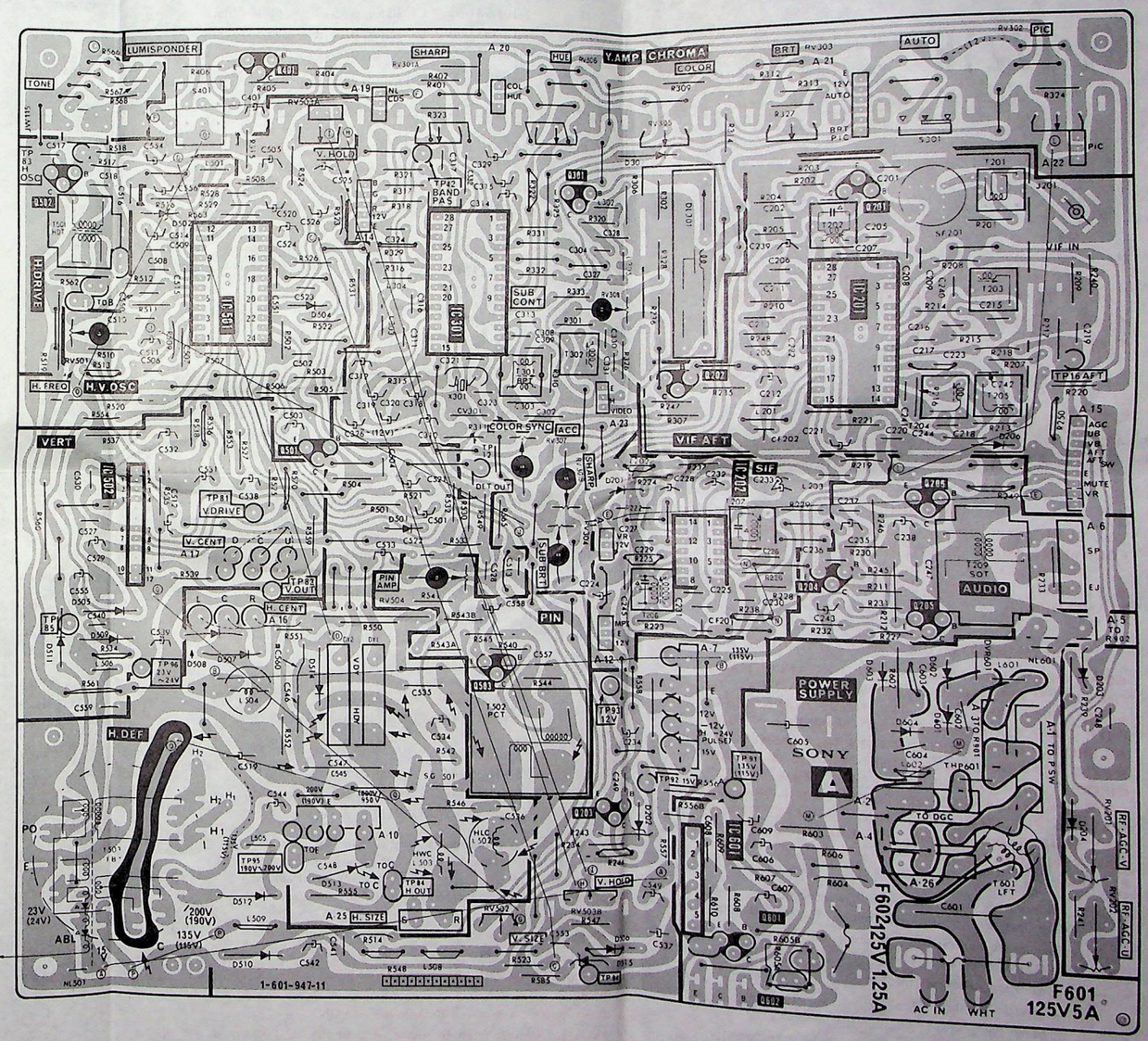


MM (WIDE AFT DEFEAT)

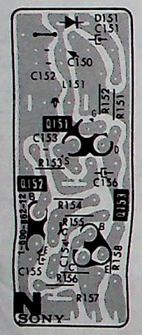


A (VIF, SIF, CHROMA, Y.AMP, H.DEF, V.DEF, AF.OUT, POWER SUPPLY, CUSTOMER CONTROL)

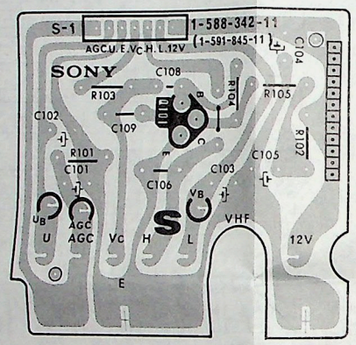
IC	Q	D	ADJ
	401		
		301	
	502 301, 201		
		502	
501, 301 201		504	RV308
			RV501
	202		
			CV301 RV307
	501	206	
	206	201	T207 RV301B
502		501	RV304
202			
	204		RV504
	205	505	T206
		508 511, 509	
	503	507 203 603, 602 514 601 604	
	203	204	
		202	RV201
601		513	L503
		512	
	601		RV502 RV202
		506 510, 515	
	602		
IC	Q	D	ADJ



N (DETECTOR, INF AMP)



S (TUNER, ACTIVE FILTER)



C (R.G.B.OUT)